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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/088,650	03/20/2002	Katsuhiko Hiramatsu	L9289.02147 2769			
24257	24257 7590 11/03/2004			EXAMINER		
	DAVIS MILLER & M	CHO, UN C				
1615 L STRE SUITE 850	EEI, NW	ART UNIT	PAPER NUMBER			
WASHINGTON, DC 20036			2687	5		
		DATE MAILED: 11/03/2004				

Please find below and/or attached an Office communication concerning this application or proceeding.



		Applicati	on No.	Applicant(s)					
			50	HIRAMATSU ET AL.	G				
Office Action Summary		Examine		Art Unit					
•		Un C Cho		2687					
The MAILING DATE of this communication appears on the cover sheet with the correspondence address									
Period fo	• •								
THE - External after - If the - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR MAILING DATE OF THIS COMMUNIC, asions of time may be available under the provisions of SIX (6) MONTHS from the mailing date of this commun period for reply specified above is less than thirty (30) of period for reply is specified above, the maximum statue to reply within the set or extended period for reply will eply received by the Office later than three months after adjustment. See 37 CFR 1.704(b).	ATION. 37 CFR 1.136(a). In no evication. days, a reply within the stattory period will apply and will, by statute, cause the app	ent, however, may a reply be tim utory minimum of thirty (30) day: ill expire SIX (6) MONTHS from lication to become ABANDONE	nely filed s will be considered timely. the mailing date of this communic D (35 U.S.C. § 133).	ation.				
Status									
1)	Responsive to communication(s) filed	on .							
2a)□	This action is FINAL . 2b)⊠ This action is non-final.								
3)	, <i>^—</i>								
Dispositi	on of Claims								
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.									
	4a) Of the above claim(s) is/are withdrawn from consideration.								
5)	5) Claim(s) is/are allowed.								
6)⊠	6)⊠ Claim(s) <u>1-5</u> is/are rejected.								
-	7) Claim(s) is/are objected to.								
8)[Claim(s) are subject to restriction	on and/or election re	equirement.						
Applicati	on Papers								
9)[The specification is objected to by the E	Examiner.							
10)⊠ The drawing(s) filed on <u>20 March 2002</u> is/are: a) accepted or b)⊠ objected to by the Examiner.									
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).									
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).									
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.									
Priority u	nder 35 U.S.C. § 119								
12)⊠	Acknowledgment is made of a claim for	r foreign priority und	der 35 U.S.C. § 119(a)	-(d) or (f).					
a) ☐ All b) ☐ Some * c) ⊠ None of:									
	1.⊠ Certified copies of the priority documents have been received.								
2. Certified copies of the priority documents have been received in Application No									
3. Copies of the certified copies of the priority documents have been received in this National Stage									
	application from the Internationa	· · · · · · · · · · · · · · · · · · ·							
* S	ee the attached detailed Office action f	for a list of the certi	fied copies not receive	d.					
Attachment	c(s)								
1) Notic	e of References Cited (PTO-892)		4) Interview Summary	(PTO-413)					
2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 5) Notice of Informal Patent Application (PTO-152)									
	I) Minformation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 3/20/2002. 5) Notice of Informal Patent Application (PTO-152) 6) Other:								

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DETAILED ACTION

Drawings

1. Figures 1 and 2 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.121(d)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1 5 are rejected under 35 U.S.C. 102(b) as being anticipated by Smith (US 5,642,355).

Regarding claim 1, Smith discloses a base station apparatus comprising delay time measuring means (timing advance control logic) for measuring propagation delay time (distance of the mobile station with respect to the base

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station) of a radio channel and channel assigning means (timeslot allocation) for carrying out channel retrieval in an order based on the propagation delay time measured by said delay time measuring means (timing advance control logic) when carrying out channel assignment (timeslot allocation) (Col. 1, lines 38 – 45 and Col. 3, lines 29 – 59).

Regarding claim 2, Smith discloses that the channel assigning means (timeslot allocation) refers to a table (timeslot group, Fig. 5) that indicates a range of propagation delay time assigned to each slot (real and virtual distance of mobile station with respect to the base station) and carries out the channel retrieval (timeslot allocation) from a slot in which the measured propagation delay time (range of distance) is within said range (Col. 6, line 48 through Col. 7, line 24).

Regarding claim 3, Smith discloses a communication terminal apparatus that carries out radio communication with the base station apparatus comprising transmitting means for transmitting signals via a channel of the uplink assigned by said base station apparatus and receiving means for receiving signals via a channel of an assigned downlink (it is inherent that after a channel is allocated (timeslot allocation) to a mobile station, the mobile station will use that particular channel to communicate with the base station) (Col. 2, lines 49 – 55).

Regarding claim 4, the claim is interpreted and rejected for the same reason as set forth in claim 1.

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Regarding claim 5, the claim is interpreted and rejected for the same reason as set forth in claim 2.

Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Sarkioja et al. (US 5,774,808) discloses a method for allocating radio channels in a cellular communication system, each cell having at least one base station communicating with the subscriber terminal equipment by means of a traffic channel specific for each connection.

Parantainen et al. (US 6,242,881) discloses a dynamic channel allocation method based on monitoring of signal levels.

Benveniste (US 5,956,643) discloses a channel assignment system assigning channels to various cells by the optimal partitioning of the available radio frequencies into non-overlapping sets.

Oksala (US 6,477,151) discloses a method of synchronizing radio signal transmission slots at a mobile station to radio signal reception slots at a base station subsystem to account for a propagation delay between the mobile station and the base station subsystem.

Keskitalo et al. (US 6,128,486) discloses a base station receiver and a reception method in a CDMA cellular radio system including at least one base station communicating with a plurality of mobile station situated within its area.

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Ishikawa et al. (US 5,666,655) discloses a mobile communication system using an autonomous distributed type dynamic channel allocation scheme.

Olds et al. (US 5,732,351) discloses that the channel is assigned using a cost function, which includes a distance factor and an isolation factor.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Un C Cho whose telephone number is (703) 305-8725. The examiner can normally be reached on M ~ F 8:00AM to 4:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Lester Kincaid can be reached on (703) 306-3016. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Un C Cho /º/25/04 //c Examiner Art Unit 2687

LESTER G. KINCAID
PRIMARY EXAMINER

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